

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (Previously Presented) A data storage system comprising:  
a plurality of storage nodes, each node existing at a physical location and having one or more associated contexts including a political context, an economic context, a geographic context or a network topological context;  
interface mechanisms coupled to each storage node for communicating storage access requests with the storage node; and  
data storage management processes that select one or more of the storage nodes to serve a data storage request based at least in part upon the particular contexts associated with each of the storage nodes.
2. (original) The system of claim 1 wherein the data storage management processes comprise computer-implemented processes executing in at least one of the storage nodes.
3. (original) The system of claim 1 wherein the data storage management processes comprise computer-implemented processes executing in all of the storage nodes.
4. (original) The system of claim 1 wherein the data storage requests are associated with a set of desired criteria.
5. (original) The system of claim 1 wherein the data storage requests are associated with a set of desired criteria and the data storage management processes comprise processes for matching the desired criteria to the contexts of the storage nodes.
6. (original) The data storage system of claim 1 wherein the data storage management processes present a unitary logical volume of data storage

Appl. No: 09/777,002  
Amtd. Dated June 21, 2005  
Reply to Office action of April 21, 2005

to external devices generating the storage access requests to the selected one or more storage nodes.

7. (original) The data storage system of claim 6 wherein the selected one or more storage nodes are selected such that the contexts associated with the unitary logical volume satisfies the desired criteria associated with the one or more storage nodes.

Claims 8 - 11. (cancelled)

12. (original) The data storage system of claim 1 further comprising encryption mechanisms coupled to the interface mechanisms for encrypting storage access requests during communication between nodes.

13. (original) The data storage system of claim 1 further comprising authentication mechanisms coupled to the interface mechanisms for authenticating storage nodes before communicating storage requests.

14. (Previously Presented) A method of managing distributed data storage comprising the acts of:

providing a plurality of distributed storage nodes, each node existing at a physical location and having one or more associated contexts including a political context, an economic context, a geographic context or a network topological context;

receiving a data storage task in one of the storage nodes;  
determining desired criteria associated with the received data storage task;

selecting one or more of the plurality of storage nodes having an associated context satisfying the desired criteria; and  
executing the storage task in the one or more selected storage nodes.

15. (Previously Presented) The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes where neither of the

Appl. No: 09/777,002  
Arndt. Dated June 21, 2005  
Reply to Office action of April 21, 2005

at least two storage nodes individually satisfy the desired criteria, but collectively the at least two storage nodes satisfy the desired criteria.

16. (original) The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are located in different geographical locations.

17. (original) The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are located in different areas of a single data center.

18. (original) The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are connected via different network backbones in a single data center.

19. (original) The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are located in different data centers.

20. (original) The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are located in different cities.

21. (original) The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are located in different political jurisdictions.

22. (original) The method of claim 14 wherein the selection is based upon socio-economic attributes of the physical location of the data storage node.

23. (Previously Presented) The method of claim 14 wherein the selecting step further comprises matching the desired criteria to a context associated with the one or more storage nodes.

Appl. No: 09/777,002  
Arndt. Dated June 21, 2005  
Reply to Office action of April 21, 2005

24. (original) The method of claim 14 wherein the act of storing comprises storing the data according to a distributed parity scheme analogous to parity distribution found in RAID subsystems.

25. (original) The method of claim 24 wherein the parity paradigm comprises an N-dimensional parity mechanisms where "N" is greater than three.

26. (original) The method of claim 14 wherein the act of storing comprises storing the data in a manner such that the data stored in any one storage node cannot be used in any meaningful fashion without the availability of some or all of the data stored in other storage nodes.

27. (Previously Presented) A data storage service comprising:  
receiving data storage access requests from a file system;  
maintaining a state information data structure including state information describing the contexts of a number of network-accessible storage devices, wherein the contexts include a political context, an economic context, a geographic context or a network topological context; and  
using the state information to allocate capacity within the network-accessible storage devices to handle the received data storage request.

28. (original) The data storage service of claim 27 wherein the act of maintaining the state information data structure comprises:  
detecting a change in state information associated with at least one of the network-accessible storage devices; and  
updating the state information associated with the at least one network-accessible storage device to include the change in state information.

29. (original) The data storage service of claim 27 further comprising:  
dynamically re-allocating capacity within the network-accessible storage devices in response to detecting a change in their associated contexts.

06-21-05 02:34pm From-HOGAN&HARTSON

720 406 5302

T-729 P.007/010 F-710

Appl. No: 09/777,002  
Amtd. Dated June 21, 2005  
Reply to Office action of April 21, 2005

30 (original) The data storage service of claim 29 wherein the dynamic re-allocating is done in the absence of an externally generated data storage access request.

31. (Cancelled)